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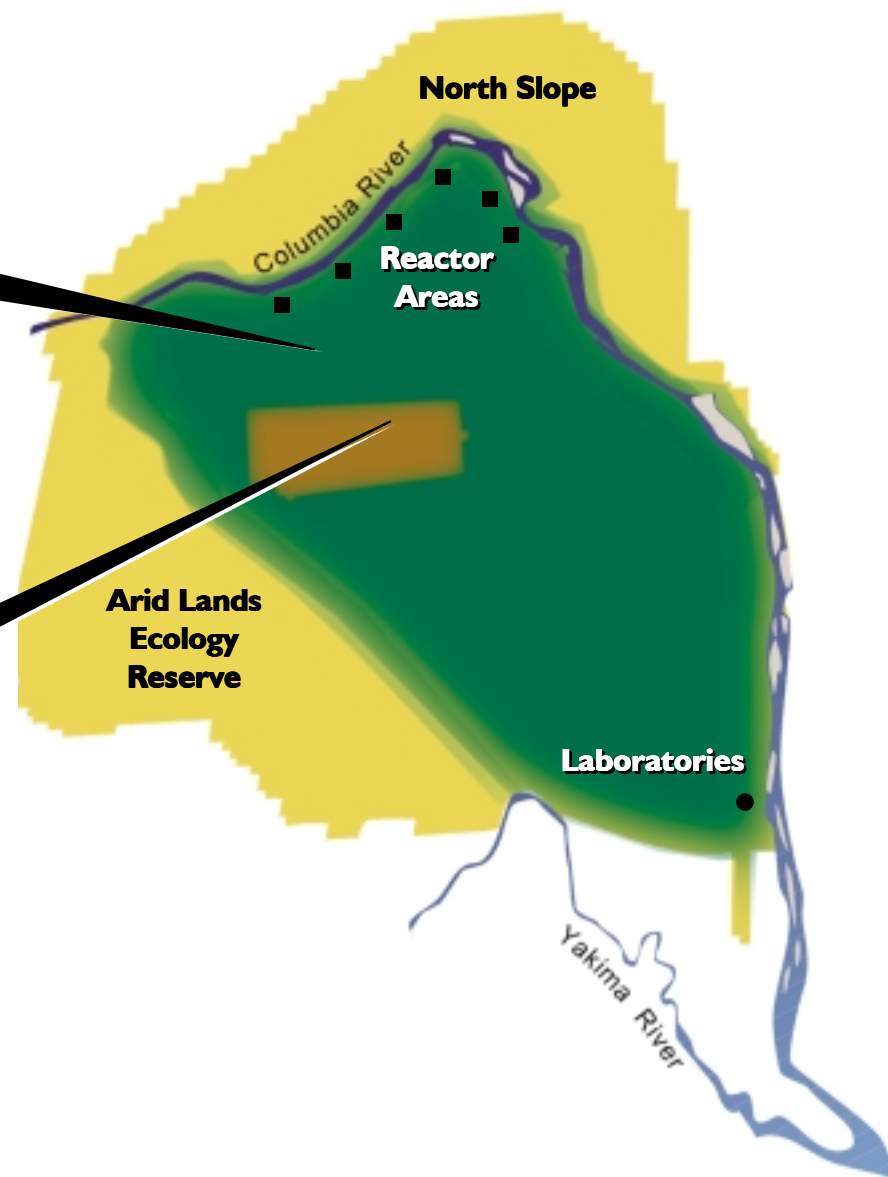


Hanford 2012: Accelerating Cleanup and Shrinking the Site

***Restore The
River Corridor***

***Transition The
Central Plateau***

***Prepare For
The Future***



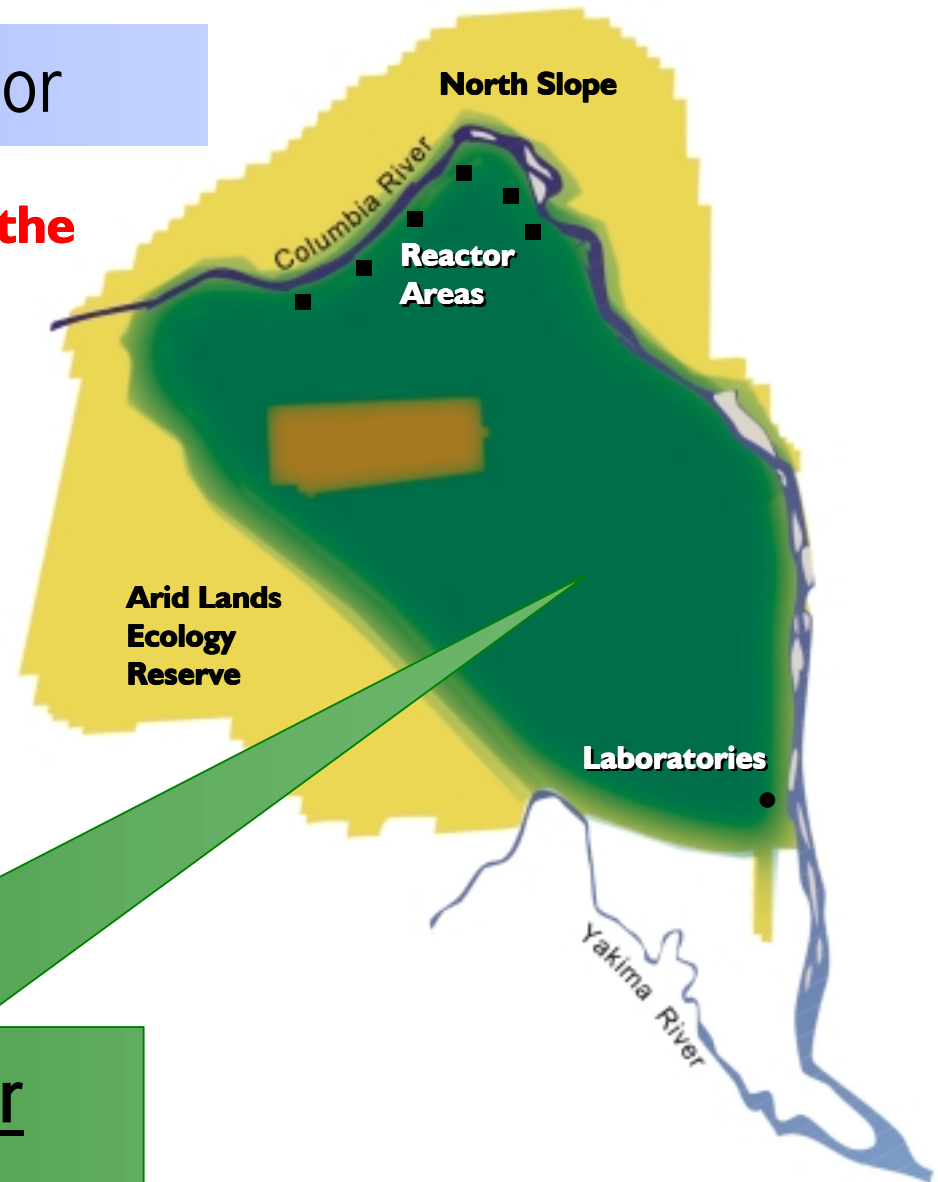


Hanford 2012: Accelerating Cleanup and Shrinking the Site

Hanford 2012: The River Corridor

- ✓ **Accelerates cleanup of portions of the 300 Area by more than 30 years**
- ✓ **Gets spent nuclear fuel out of the K Basins on schedule**
- ✓ **Moves about 56 Million curies of radioactivity off the River Corridor into safe storage or disposal**
- ✓ **Places 8 production reactors in interim safe storage**
- ✓ **Shrinks active Hanford operations to about 75 square miles**

Essentially completes River Corridor cleanup by 2012

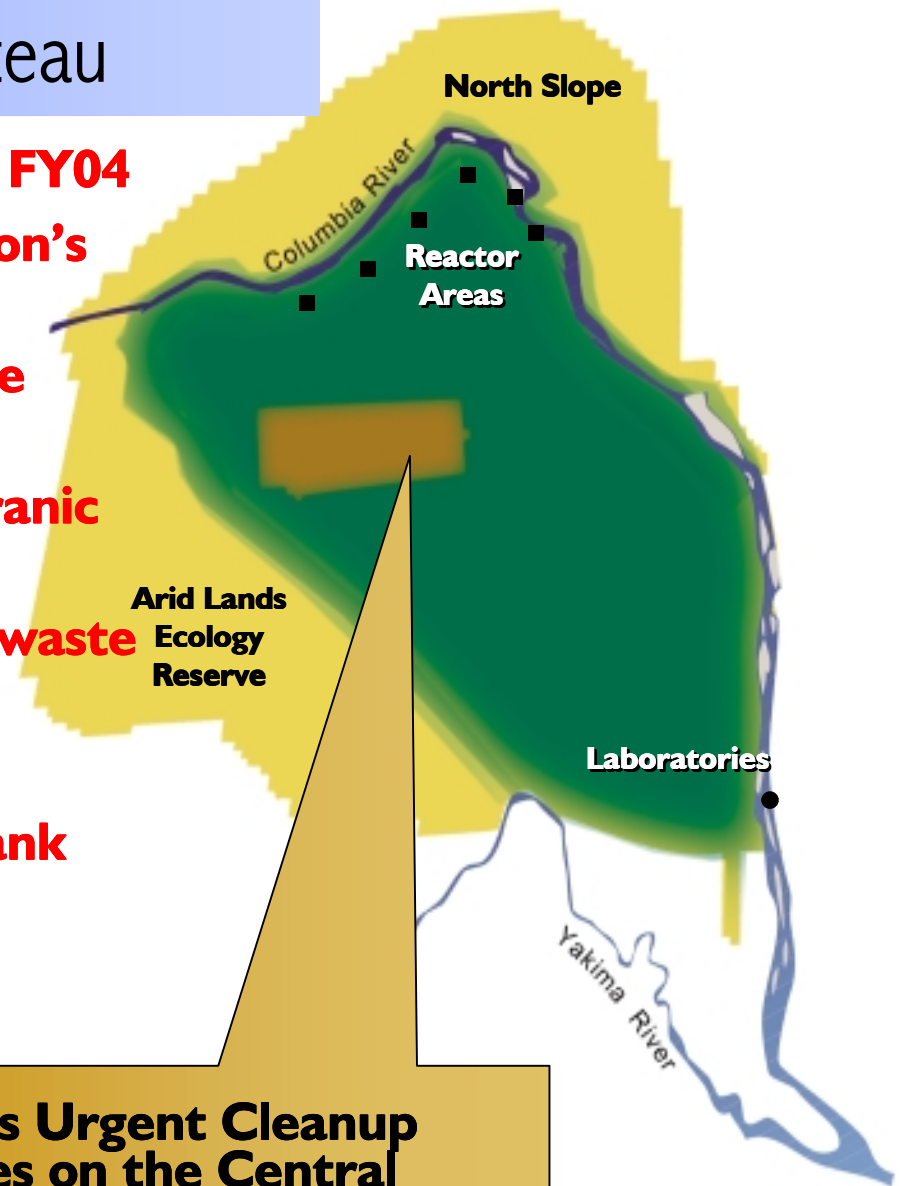




Hanford 2012: Accelerating Cleanup and Shrinking the Site

Hanford 2012: The Central Plateau

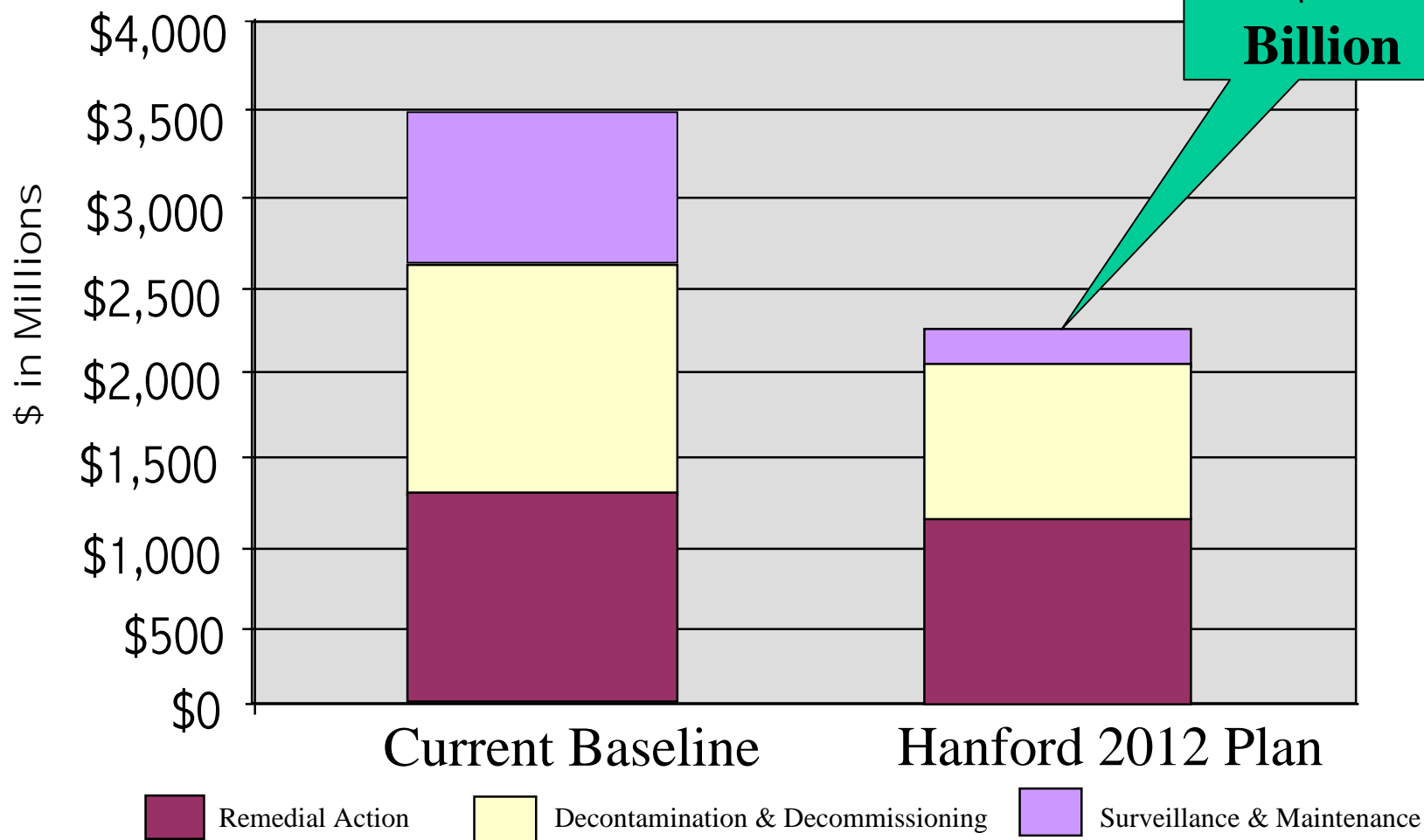
- ✓ **Completes plutonium stabilization in FY04**
 - ✓ **Supports the Office of River Protection's waste treatment project**
 - ✓ **Sends transuranic waste to the Waste Isolation Pilot Plant in New Mexico**
 - ✓ **Retrieves all contact-handled transuranic waste from burial grounds**
 - ✓ **Modernizes, stabilizes, and operates waste management facilities**
 - ✓ **Treats mixed waste**
 - ✓ **Completes characterization of non tank farm waste sites**
 - ✓ **Develops technology for 200 Area groundwater plume remediation and implements final decisions**
- Addresses Urgent Cleanup Challenges on the Central Plateau**





Hanford 2012: Accelerating Cleanup and Shrinking the Site

Hanford 2012: River Corridor Savings





Fluor Hanford, Inc. Contract Extension

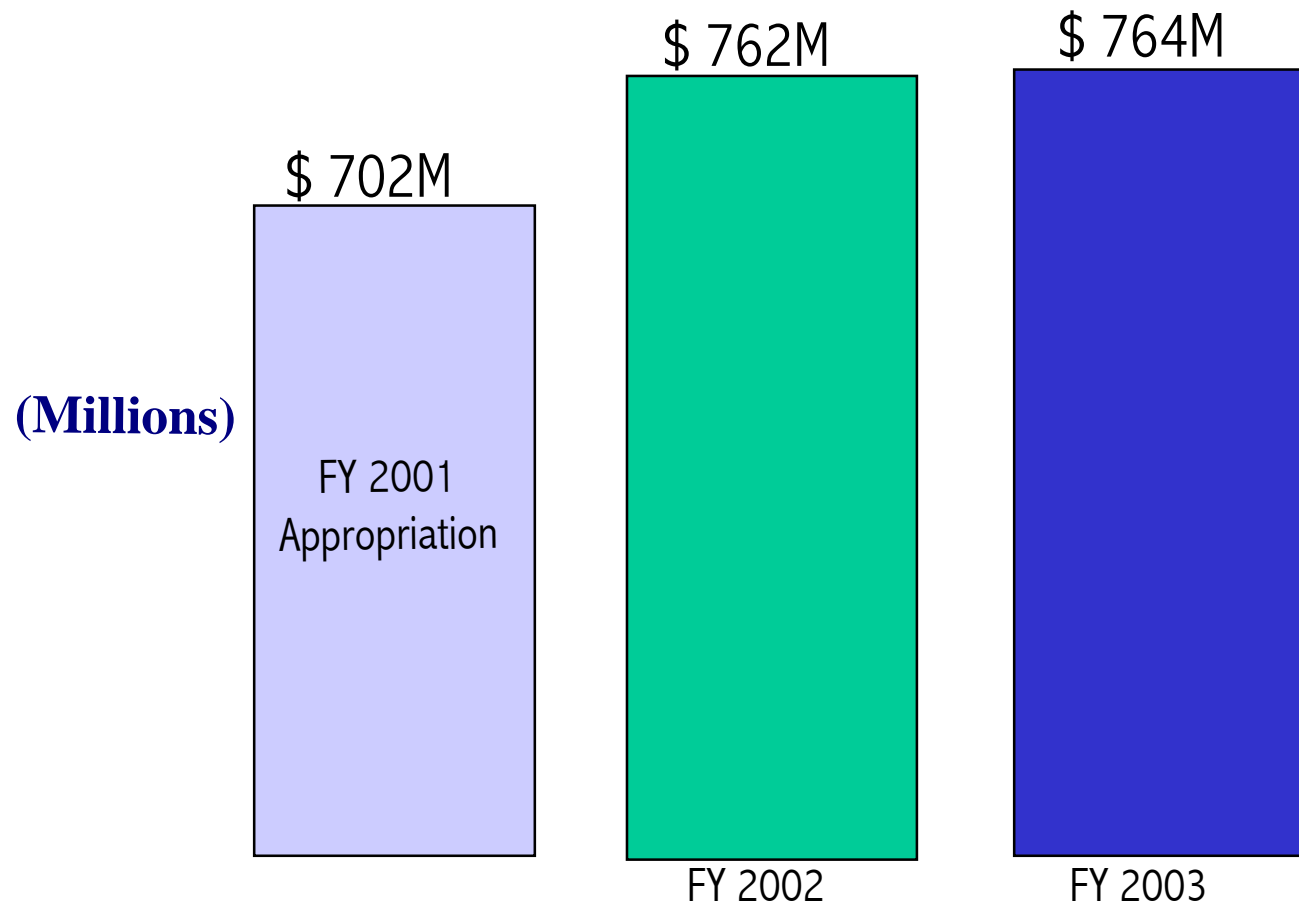
- **Clear motivation to deliver projects on or ahead of schedule**
- **High value to complete more deliverables for reduced cost**

Result: \$3.6 billion in scope for \$3.2 billion



Hanford 2012: Accelerating Cleanup and Shrinking the Site

Environmental Management Funding



Hanford 2012 Plan Requirements



Hanford 2012: Accelerating Cleanup and Shrinking the Site

FY02 Planned Work and Budget Requirements

River Corridor - \$328M

River Corridor Restoration (\$164.9M):

- Receive and dispose of 215,000 cubic meters of contaminated soil and debris at Environmental Restoration Disposal Facility
- Treat 58 Million gallons of industrial waste water at the 300 Area Treated Effluent Disposal Facility
- Continue F Reactor interim safe storage work

Spent Nuclear Fuel (\$163.1M)

- Continue removal of spent fuel from K-West Basin (approx. 120 multi-canister overpacks)
- Continue operating the Canister Storage Building to receive and safely store SNF from the K Basins

\$762M

Central Plateau - \$191.1M

- Stabilize approx. 1,200 kilograms bulk of plutonium-bearing residues at the Plutonium Finishing Plant (PFP)
- Stabilize approx. 1,500 items of plutonium oxides/ polycubes at PFP
- Treat 265 cubic meters of mixed low-level waste
- Retrieve 1,200 buried transuranic waste drums
- Complete stabilization of plutonium-bearing solutions at PFP
- Continue groundwater remediation

Other – 242.9M

- Maintain, upgrade and replace site infrastructure
- Continue groundwater/vadoze zone monitoring and integration activities
- Dispose of waste from PNNL facilities
- Operate the HAMMER training facility
- Fund Payment in Lieu of Taxes, HAB, oversight grants, etc.



Hanford 2012: Accelerating Cleanup and Shrinking the Site

FY03 Planned Work and Budget Requirements

River Corridor - \$303.8.1M

- River Corridor Restoration (\$186.1M):
 - Complete F & D Reactor Interim Safe Storage work
 - Demolish 22 facilities in the 100 Area
 - Receive and dispose of 217,000 cubic meters of contaminated soil and debris
 - Treat 58 million gallons of industrial waste water
- Spent Nuclear Fuel (\$117.7M)
 - Complete removal of ALL SNF from K West Basin and begin K East Basin fuel removal
 - Begin K Basin sludge removal by December 2002
 - Continue operating the Canister Storage Building to receive and safely store SNF from the K Basins

\$764M

Central Plateau - \$217.1M

- Stabilize approx. 3,600 items of plutonium oxides at Plutonium Finishing Plant (PFP)
- Stabilize approx. 1,300 kilograms bulk of plutonium- bearing residues at PFP
- Certify and ship 84 cubic meters of transuranic(TRU) waste to the Waste Isolation Pilot Plant in New Mexico
- Treat 2,000 cubic meters of mixed low-level waste
- Complete remediation of 21 waste sites
- Retrieve 2,000 buried TRU waste drums
- Continue groundwater remediation

Other - \$243.1M

- Maintain, upgrade and replace site infrastructure
- Continue groundwater/vadoze zone monitoring and integration activities
- Disposition waste from PNNL facilities
- Operate the HAMMER training facility
- Fund Payment in Lieu of Taxes, HAB, oversight grants, etc.



Hanford 2012: Accelerating Cleanup and Shrinking the Site

Hanford 2012: The Time is NOW

- ◆We must close the compliance gap
- ◆We must demonstrate to Congress that we are completing cleanup in a reasonable time
- ◆Completing work sooner is less costly in the long run
- ◆We are technically ready and can build on our cleanup experience



Hanford 2012: Accelerating Cleanup and Shrinking the Site

FY 2000 Scorecard

Commitments	Status	Comments
Complete, install, and test all systems needed to begin moving spent fuel out of the K Basins	✓	On track to move first fuel November 2000
Quadruple the plutonium stabilization rate at PFP (604 items)	+	3 new processes implemented, 652 items stabilized
Begin shipments of transuranic waste to New Mexico for permanent disposal	✓	3 shipments, 18 cubic meters
Begin moving surplus uranium off site	✓	
Complete cleanup of 41 waste sites near the Columbia River	+	42 waste sites completed
Move 300,000 tons of contaminated soil away from the river	+	More than 600,000 tons of soil moved
Treat and dispose of 1,060 cubic meters of mixed low-level waste	+	
Dispose of 6,936 cubic meters of low-level waste	✓	
Complete 19 shipments of remote-handled waste from B-Cell cleanout operations ** Final accounting showed all 19 shipments by 9/30/00	** —	
Decommission or deactivate 35 buildings	+	

* From the Tri-Party Agreement, DOE-HQ commitments, DOE Richland work plans, and other sources





Hanford 2012: Accelerating Cleanup and Shrinking the Site

What are Your Priorities?

- ☐ **Decontaminate and Decommission buildings in the River Corridor**
- ☐ **Clean up soil**
- ☐ **Deactivate the 233-S Facility**
- ☐ **Determine whether former processing facility “canyons” can be used for waste disposal**
- ☐ **Continue groundwater protection measures**
- ☐ **Remove spent nuclear fuel from the K Reactor basins**
- ☐ **Cocoon reactors for Interim Safe Storage**
- ☐ **Retrieve buried transuranic waste**
- ☐ **Ship transuranic waste to the Waste Isolation Pilot Plant in New Mexico**
- ☐ **Treat mixed waste**
- ☐ _____
- ☐ _____